

Publications 2001 – 2006, RHIC Spin Group

Primary Publications – Members of Group Played Major Role

1. **MEASUREMENT OF THE ANALYZING POWER A_N IN PP ELASTIC SCATTERING IN THE CNI REGION WITH A POLARIZED ATOMIC HYDROGEN GAS JET TARGET.** H. Okada *et al.*. Jan 2006. 4pp. e-Print Archive: [hep-ex/0601001](#)
2. **POLARIZED PROTON COLLISIONS AT 205 GEV AT RHIC.** M. Bai *et al.* **Phys. Rev. Lett. (in press) 2006.**
3. **TRANSVERSE SPIN AND RHIC.** By L.C. Bland (Brookhaven),. Feb 2006. 11pp. To appear in the proceedings of International Workshop on Transverse Polarization Phenomena in Hard Processes (Transversity 2005), Villa Olmo, Como, Italy, 7-10 Sep 2005. e-Print Archive: [hep-ex/0602012](#)
4. **FORWARD NEUTRAL PION PRODUCTION IN P+P AND D+AU COLLISIONS AT $S(NN)^{**}(1/2) = 200$ -GEV.** By STAR Collaboration (J. Adams *et al.*). Feb 2006. 6pp. Submitted to **Phys. Rev. Lett.** e-Print Archive: [nucl-ex/0602011](#)
5. **MEASUREMENT OF TRANSVERSE SINGLE-SPIN ASYMMETRIES FOR MID-RAPIDITY PRODUCTION OF NEUTRAL PIONS AND CHARGED HADRONS IN POLARIZED P+P COLLISIONS AT $S^{**}(1/2) = 200$ -GEV.** By PHENIX Collaboration (S.S. Adler *et al.*). Jul 2005. 6pp. Published in **Phys. Rev. Lett. 95:202001, 2005** e-Print Archive: [hep-ex/0507073](#)
6. **POLARIZED PROTON COLLISIONS AT RHIC.** M. Bai *et al.*. May 2005. 3pp. Prepared for Particle Accelerator Conference (PAC 05), Knoxville, Tennessee, 16-20 May 2005. Published in Knoxville 2005, Particle Accelerator Conference 600
7. **FUTURE OF LOW-X FORWARD PHYSICS AT RHIC.** L.C. Bland *et al.*. Feb 2005. 8pp. Contributed to International Conference on Hard and Electromagnetic Probes of High Energy Nuclear Collisions (HP 2004), Ericeira, Portugal, 4-10 Nov 2004. Published in **Eur. Phys. J.C43:427-435, 2005** e-Print Archive: [hep-ex/0502040](#)
8. **SPIN DEPENDENCE IN POLARIZED P P \rightarrow P P AND P C \rightarrow P C ELASTIC SCATTERING AT VERY LOW MOMENTUM TRANSFER T AT RHIC.** A. Bravar *et al.*. 2005. 5pp. Published in **Nucl. Phys. Proc. Suppl. 146:77-81, 2005** Also in Cala Gonone 2004, Diffraction in high-energy physics 77-81
9. **MEASUREMENT OF THE SPIN STRUCTURE OF THE DEUTERON IN THE DIS REGION.** By COMPASS Collaboration (E.S. Ageev *et al.*). CERN-PH-EP-2005-001, DAPNIA-05-11, Jan 2005. 9pp. Published in **Phys. Lett. B612:154-164, 2005** e-Print Archive: [hep-ex/0501073](#)

10. **ABSOLUTE POLARIZED H-JET POLARIMETER DEVELOPMENT, FOR RHIC.**
A. Zelenski *et al.*. 2005. 7pp. Prepared for 10th Workshop on Polarized Sources and Targets, Novosibirsk, Russia, 22-26 Sep 2003. Published in **Nucl. Instrum. Meth. A536:248-254, 2005**
11. **THE RHIC SPIN PROGRAM: RECENT RESULTS AND FUTURE PROSPECTS.**
By RHIC Spin Collaboration (A. Bravar *for the collaboration*). 2005. 4pp. Prepared for 10th International Conference on Structure of Baryons (Baryons 2004), Palaiseau, France, 25-29 Oct 2004. Published in **Nucl. Phys. A755:313-316, 2005**
12. **PROTON POLARIMETRY AT RHIC.** By A. Bravar (Brookhaven)., 2005. 6pp.
Prepared for 13th International Workshop on Deep Inelastic Scattering (DIS 05), Madison, Wisconsin, 27 Apr - 1 May 2005. Published in **AIP Conf. Proc. 792:1039-1044, 2005**
Also in Madison 2005, Deep inelastic scattering 1039-1044
13. **NEUTRAL PION SUPPRESSION AT FORWARD RAPIDITIES IN D+AU COLLISIONS AT STAR.** By STAR Collaboration (G. Rakness for the collaboration). Jul 2005. 4pp. Talk given at 13th International Workshop on Deep Inelastic Scattering (DIS 05), Madison, Wisconsin, 27 Apr - 1 May 2005. Published in **AIP Conf.Proc.792:291-294,2005** Also in Madison 2005, Deep inelastic scattering 291-294 e-Print Archive: **hep-ex/0507093**
14. **FIRST MEASUREMENT OF A(N) AT S**(1/2) = 200-GEV IN POLARIZED PROTON-PROTON ELASTIC SCATTERING AT RHIC.** S. Bultmann *et al.*. Jul 2005. 15pp. Published in **Phys. Lett. B632:167-172, 2006** e-Print Archive: **nucl-ex/0507030**
15. **MEASUREMENT OF THE ANALYZING POWER OF PROTON-CARBON ELASTIC SCATTERING IN THE CNI REGION AT RHIC.** O. Jinnouchi *et al.*. Dec 2004. 4pp. To appear in the proceedings of 16th International Spin Physics Symposium (SPIN 2004), Trieste, Italy, 10-16 Oct 2004. Published in Trieste/Mainz 2004, SPIN 2004 515-518 e-Print Archive: **nucl-ex/0412053**
16. **P-CARBON CNI POLARIMETERS AT BNL: THE FASTEST PHYSICS SETUP IN THE WORLD.** I.G. Alekseev *et al.*. Oct 2004. 4pp. Prepared for 16th International Spin Physics Symposium (SPIN 2004), Trieste, Italy, 10-16 Oct 2004. Published in Trieste/Mainz 2004, SPIN 2004 722-725
17. **SPIN DEPENDENCE IN ELASTIC SCATTERING IN THE CNI REGION.** A. Bravar *et al.*. Oct 2004. 6pp. Prepared for 16th International Spin Physics Symposium (SPIN 2004), Trieste, Italy, 10-16 Oct 2004. Published in Trieste/Mainz 2004, SPIN 2004 700-705
18. **STATUS OF PROTON POLARIZATION IN RHIC AND AGS.** W.W. MacKay *et al.*. Oct 2004. 8pp. Prepared for 16th International Spin Physics Symposium (SPIN 2004), Trieste, Italy, 10-16 Oct 2004. Published in Trieste/Mainz 2004, SPIN 2004 163-170

19. **V.W. HUGHES: 'TO LEARN FUNDAMENTAL THINGS' 1921-2003.** By G. Bunce (RIKEN BNL),. Oct 2004. 5pp. Prepared for 16th International Spin Physics Symposium (SPIN 2004), Trieste, Italy, 10-16 Oct 2004. Published in Trieste/Mainz 2004, SPIN 2004 103-107
20. **DOUBLE HELICITY ASYMMETRY IN INCLUSIVE MID-RAPIDITY PI0 PRODUCTION FOR POLARIZED P + P COLLISIONS AT S** $(1/2)$ = 200-GEV.** By PHENIX Collaboration (S.S. Adler *et al.*). Apr 2004. 6pp. Published in **Phys. Rev. Lett.** **93:202002, 2004** e-Print Archive: [hep-ex/0404027](#)
21. **A FIRST MEASUREMENT OF THE HELICITY ASYMMETRIES FOR POLARIZED PROTON COLLISIONS AT S** $(1/2)$ = 200-GEV.** By PHENIX Collaboration (G. Bunce *for the collaboration*). Feb 2004. 5pp. Prepared for Lake Louise Winter Institute 2004 on Fundamental Interactions (LL WI 2004), Lake Louise, Alberta, Canada, 15-21 Feb 2004. Published in Lake Louise 2004, Fundamental interactions 130-134
22. **SPIN DEPENDENCE IN POLARIZED P C ---> P C SCATTERING AT LOW MOMENTUM TRANSFER AND POLARIMETRY AT RHIC.** A. Bravar *et al.*. 2004. 4pp. Published in **AIP Conf. Proc.** **698:643-646, 2004** Also in New York 2003, Intersections of particle and nuclear physics 643-646
23. **POLARIMETRY AT RHIC AND THE AGS.** H. Spinka *et al.*. 2004. Prepared for Advanced Studies Institute on Symmetries and Spin (Spin Praha 2003), Prague, Czech Republic, 12-19 Jul 2003. Published in **Czech. J. Phys.** **54:B155-B160, 2004**
24. **STATUS OF THE RHIC SPIN PROGRAM.** By L.C. Bland (Brookhaven),. Dec 2004. 9pp. Contributed to 2nd HiX2004 Workshop: Structure of the Nucleon at Large Bjorken x, Marseille, Luminy, France, 26-28 Jul 2004. Published in **AIP Conf. Proc.** **747:63-71, 2005** Also in Marseille 2004, structure of the nucleon at large Bjorken x 63-71 e-Print Archive: [hep-ex/0412009](#)
25. **STAR RESULTS FROM POLARIZED PROTON COLLISIONS AT RHIC.** By STAR Collaboration (L.C. Bland *for the collaboration*). Mar 2004. 10pp. Invited talk at 10th International Workshop on High-Energy Spin Physics (SPIN 03), Dubna, Russia, 16-20 Sep 2003. e-Print Archive: [hep-ex/0403012](#)
26. **SPIN ASYMMETRIES FOR EVENTS WITH HIGH P(T) HADRONS IN DIS AND AN EVALUATION OF THE GLUON POLARIZATION.** By Spin Muon Collaboration (SMC) (B. Adeva *et al.*). Feb 2004. 13pp. Published in **Phys. Rev. D70:012002, 2004** e-Print Archive: [hep-ex/0402010](#)
27. **SPIN EFFECTS IN LARGE RAPIDITY NEUTRAL PION PRODUCTION AT STAR.** By STAR Collaboration (Akio Ogawa *for the collaboration*). Dec 2004. 4pp. To appear in the proceedings of 16th International Spin Physics Symposium (SPIN 2004),

Trieste, Italy, 10-16 Oct 2004. Published in Trieste/Mainz 2004, SPIN 2004 337-340 e-Print Archive: [hep-ex/0412035](#)

28. **THE PP2PP EXPERIMENT AT RHIC: SILICON DETECTORS INSTALLED IN ROMAN POTS FOR FORWARD PROTON DETECTION CLOSE TO THE BEAM.** S. Bultmann *et al.* 2004. 6pp. Prepared for 10th Vienna Conference on Instrumentation, Vienna, Austria, 16-21 Feb 2004. Published in **Nucl. Instrum. Meth. A535:415-420, 2004**
29. **POLARIZED PROTON COLLIDER AT RHIC.** I. Alekseev *et al.*. FERMILAB-PUB-03-327, 2003. 23pp. Published in **Nucl. Instrum. Meth. A499:392-414, 2003**
30. **FIRST POLARIZED PROTON COLLISIONS AT RHIC.** T. Roser *et al.* 2003. 8pp. Prepared for US - CERN - Japan - Russia Joint Particle Accelerator School, Long Beach, California, 6-14 Nov 2002. Published in **AIP Conf. Proc. 667:1-8, 2003** Also in Ann Arbor 2002, Increasing the AGS polarization 1-8
31. **THE AGS CNI POLARIMETER.** G. Bunce *et al.* 2003. 4pp. Prepared for US - CERN - Japan - Russia Joint Particle Accelerator School, Long Beach, California, 6-14 Nov 2002. Published in **AIP Conf. Proc. 667:77-80, 2003** Also in Ann Arbor 2002, Increasing the AGS polarization 77-80
32. **MEASUREMENT OF SINGLE TRANSVERSE-SPIN ASYMMETRY IN FORWARD PRODUCTION OF PHOTONS AND NEUTRONS IN P P COLLISIONS AT $S^{**}(1/2) = 200$ -GEV.** A. Bazilevsky *et al.* 2003. 5pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:584-588, 2003** Also in Upton/Danvers 2002, Spin 2002 584-588
33. **RHIC P C CNI POLARIMETER: EXPERIMENTAL SETUP AND PHYSICS RESULTS.** I.G Alekseev *et al.* 2003. 5pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:812-816, 2003** Also in Upton/Danvers 2002, Spin 2002 812-816
34. **RHIC P C CNI POLARIMETER: STATUS AND PERFORMANCE FROM THE FIRST COLLIDER RUN.** O. Jinnouchi *et al.* 2003. 9pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:817-825, 2003, Czech. J. Phys. 53:B409-B415, 2003** Also in Upton/Danvers 2002, Spin 2002 817-825
35. **POLARIZED H- JET POLARIMETER FOR ABSOLUTE PROTON POLARIZATION MEASUREMENTS IN RHIC.** A. Zelenski *et al.* 2003. 7pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:954-960, 2003** Also in Upton/Danvers 2002, Spin 2002 954-960

36. **THE PHYSICS OF RHIC SPIN.** By G. Bunce (Brookhaven & RIKEN BNL),. 2003. 10pp. Prepared for 31st Coral Gables Conference on High-Energy Physics and Cosmology: Short Distance Behavior of Fundamental Interactions, Fort Lauderdale, Florida, 11-14 Dec 2002. Published in **AIP Conf. Proc. 672:100-109, 2003** Also in Fort Lauderdale 2002, Short distance behavior of fundamental interactions 100-109
37. **THE ABSOLUTE POLARIMETER FOR RHIC.** By Jet Target Collaboration (A. Bravar *for the collaboration*). 2003. 6pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:830-835, 2003** Also in Upton/Danvers 2002, Spin 2002 830-835
38. **STAR FORWARD PI0 DETECTOR UPGRADE.** By STAR Collaboration (A. Ogawa *for the collaboration*). 2003. 5pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:407-411, 2003** Also in Upton/Danvers 2002, Spin 2002 407-411
39. **AZIMUTHAL ASYMMETRIES IN FRAGMENTATION PROCESSES AT KEKB.** By K. Hasuko, M. Grosse Perdekamp, A. Ogawa, J.S. Lange, V. Siegle (RIKEN BNL & Wako, RIKEN & Brookhaven & Frankfurt U.),. 2003. 5pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:454-458, 2003** Also in Upton/Danvers 2002, Spin 2002 454-458
40. **SPIN PHYSICS AT STAR.** By STAR Collaboration (A. Ogawa *for the collaboration*). 2003. 5pp. Prepared for 15th International Spin Physics Symposium (SPIN 2002), Long Island, New York, 9-14 Sep 2002. Published in **AIP Conf. Proc. 675:504-508, 2003** Also in Upton/Danvers 2002, Spin 2002 504-508
41. **FIRST MEASUREMENT OF PROTON PROTON ELASTIC SCATTERING AT RHIC.** Stephen L. Buelmann *et al.*. May 2003. 9pp. Published in **Phys. Lett. B579:245-250, 2004** e-Print Archive: [nucl-ex/0305012](#)
42. **THE FIRST RHIC SPIN RUN AT PHENIX AND PP2PP.** By Gerry Bunce (RIKEN BNL),. Aug 2002. 5pp. Invited talk at 37th Rencontres de Moriond on QCD and Hadronic Interactions, Les Arcs, France, 16-23 Mar 2002. e-Print Archive: [hep-ex/0208002](#)
43. **MEASUREMENT OF ANALYZING POWER FOR PROTON CARBON ELASTIC SCATTERING IN THE COULOMB NUCLEAR INTERFERENCE REGION WITH A 22-GEV/C POLARIZED PROTON BEAM.** J. Tojo *et al.*. Jun 2002. 4pp. Published in **Phys. Rev. Lett. 89:052302, 2002** e-Print Archive: [hep-ex/0206057](#)
44. **ACCELERATING AND COLLIDING POLARIZED PROTONS IN RHIC WITH SIBERIAN SNAKES.** T. Roser *et al.*. Jun 2002. 3pp. Prepared for 8th European Particle Accelerator Conference (EPAC 2002), Paris, France, 3-7 Jun 2002. Published in Paris 2002, EPAC 02 209-211

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46. **MEASUREMENT OF ANALYZING POWERS OF PI+ AND PI- PRODUCED ON A HYDROGEN AND A CARBON TARGET WITH A 22-GEV/C INCIDENT POLARIZED PROTON BEAM.** C. E. Allgower *et al.*. May 2002. 24pp. Published in **Phys. Rev. D65:092008, 2002**
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49. **DIFFRACTION AT RHIC.** By A. Bravar, W. Guryn (Brookhaven), S.R. Klein (LBL, Berkeley), D. Milstead (Liverpool U.), B. Surrow (Brookhaven),. Aug 2002. 7pp. Published in **J. Phys. G28:2885, 2002** e-Print Archive: [hep-ex/0208050](#)
50. **THE FUTURE OF DIFFRACTION AT RHIC.** By W. Guryn (Brookhaven),. 2001. Prepared for DIFFRACTION 2000: International Workshop on Diffraction in High-energy and Nuclear Physics, Cetraro, Cosenza, Italy, 2-7 Sep 2000. Published in **Nucl. Phys. Proc. Suppl. 99A:299-308, 2001** Also in Cetraro 2000, Diffraction in high-energy physics 299-308
51. **MEASUREMENT OF IDENTIFIED PI0 AND INCLUSIVE PHOTON V(2) AND IMPLICATION TO THE DIRECT PHOTON PRODUCTION IN S(NN)**1/2 = 200-GEV AU+AU COLLISIONS.** By PHENIX Collaboration (S.S. Adler *et al.*). Aug 2005. 6pp. Published in **Phys. Rev. Lett. 96:032302, 2006** e-Print Archive: [nucl-ex/0508019](#)
52. **CENTRALITY DEPENDENCE OF DIRECT PHOTON PRODUCTION IN S(NN)**(1/2) = 200-GEV AU + AU COLLISIONS.** By PHENIX Collaboration (S.S. Adler *et al.*). Mar 2005. 6pp. Published in **Phys. Rev. Lett. 94:232301, 2005** e-Print Archive: [nucl-ex/0503003](#)
53. **GLUON POLARIZATION IN THE NUCLEON FROM QUASI-REAL PHOTOPRODUCTION OF HIGH-P(T) HADRON PAIRS.** By COMPASS Collaboration (E.S. Ageev *et al.*). CERN-PH-EP-2005-049, DAPNIA-05-297, Oct 2005. 10pp. Published in **Phys. Lett. B633:25-32, 2006** e-Print Archive: [hep-ex/0511028](#)
54. **FIRST MEASUREMENT OF THE TRANSVERSE SPIN ASYMMETRIES OF THE DEUTERON IN SEMI-INCLUSIVE DEEP INELASTIC SCATTERING.** By COMPASS Collaboration (V.Yu. Alexakhin *et al.*). CERN-PH-EP-2005-003, DAPNIA-05-

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55. **THE COMPASS TRIGGER SYSTEM FOR MUON SCATTERING.** C. Bernet *et al.*. 2005. 24pp. Published in **Nucl. Instrum. Meth.** **A550:217-240, 2005**
56. **SPIN DEPENDENT FRAGMENTATION FUNCTIONS AT BELLE.** By A. Ogawa, D. Gabbert, M. Grosse Perdekamp, R. Seidl, K. Hasuko (RIKEN BNL & Illinois U., Urbana & Wako, RIKEN),. 2005. 4pp. Prepared for 13th International Workshop on Deep Inelastic Scattering (DIS 05), Madison, Wisconsin, 27 Apr - 1 May 2005. Published in **AIP Conf. Proc.** **792:949-952, 2005** Also in Madison 2005, Deep inelastic scattering 949-952
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59. **FORWARD PION PRODUCTION IN P + P AND D + AU COLLISIONS AT STAR.** By STAR Collaboration (G. Rakness for the collaboration). May 2005. 5pp. Presented at 40th Rencontres de Moriond on QCD and High Energy Hadronic Interactions, La Thuile, Aosta Valley, Italy, 12-19 Mar 2005. e-Print Archive: [hep-ex/0505062](#)
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61. **NUCLEAR TRANSPARENCY IN 90 DEGREE C.M. QUASIELASTIC A(P, 2P) REACTIONS.** Jaime L.S. Aclander *et al.*. May 2004. 24pp. Published in **Phys. Rev. C70:015208, 2004** e-Print Archive: [nucl-ex/0405025](#)
62. **FINAL RESULTS FROM THE MUON G-2 EXPERIMENT.** By g-2 Collaboration (G. Bunce *for the collaboration*). Feb 2004. 5pp. Prepared for Lake Louise Winter Institute 2004 on Fundamental Interactions (LL WI 2004), Lake Louise, Alberta, Canada, 15-21 Feb 2004. Published in Lake Louise 2004, Fundamental interactions 135-139
63. **MEASUREMENT OF THE NEGATIVE MUON ANOMALOUS MAGNETIC MOMENT TO 0.7 PPM.** By Muon g-2 Collaboration (G.W. Bennett *et al.*). Jan 2004.

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73. **GLOBAL OBSERVABLES AT PHENIX.** By PHENIX Collaboration (Alexander Bazilevsky *for the collaboration*). Apr 2003. 5pp. To appear in the proceedings of 19th Winter Workshop on Nuclear Dynamics, Breckenridge, Colorado, 9-15 Feb 2003. Published in **Heavy Ion Phys.** **21:101-105, 2004** e-Print Archive: [nucl-ex/0304015](#)
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75. **MEASUREMENT OF THE POSITIVE MUON ANOMALOUS MAGNETIC MOMENT TO 0.7 PPM.** By Muon g-2 Collaboration (G.W. Bennett *et al.*). Aug 2002. 5pp. Published in **Phys. Rev. Lett.** **89:101804, 2002**, Erratum-*ibid.* **89:129903, 2002** e-Print Archive: [hep-ex/0208001](#)
76. **THE SUPERCONDUCTING INFLECTOR FOR THE BNL G-2 EXPERIMENT.** A. Yamamoto *et al.*. 2002. Published in **Nucl. Instrum. Meth.** **A491:23-40, 2002**
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